

FIG. 1A

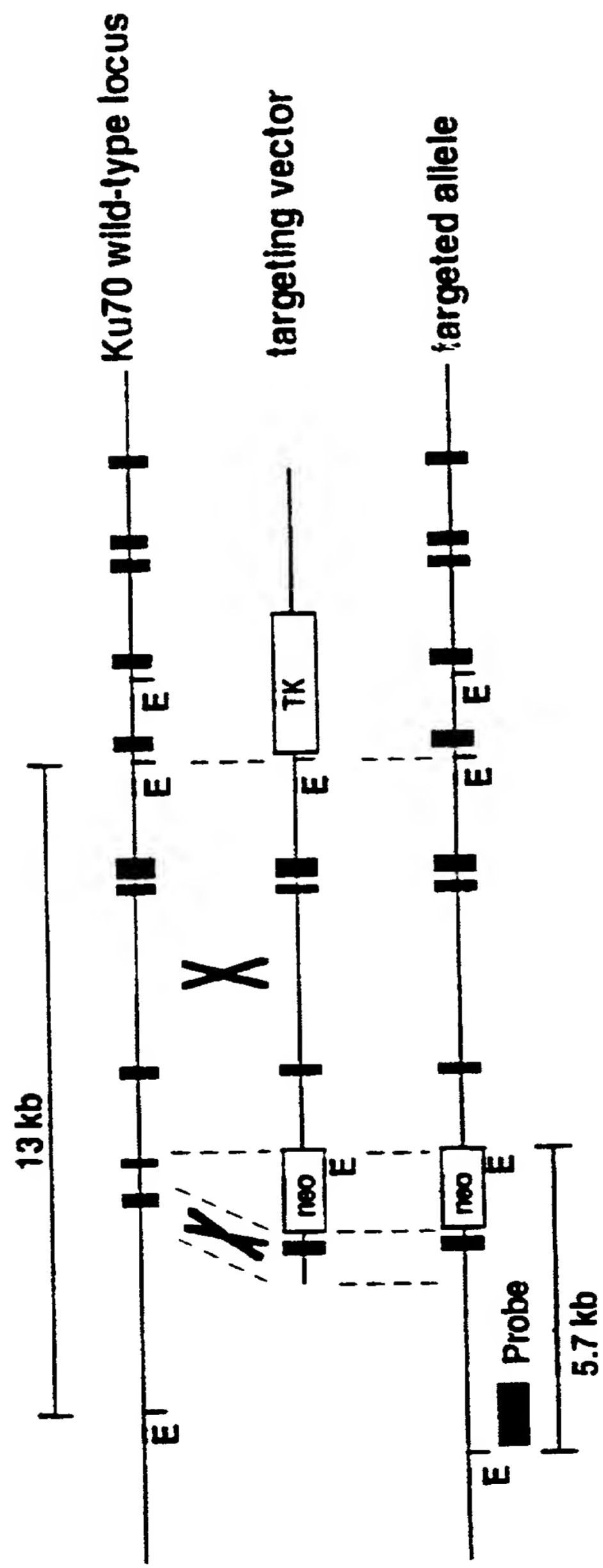


FIG. 1B

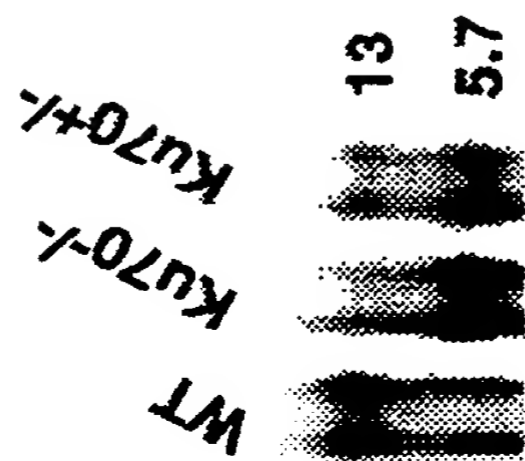


FIG. 1C

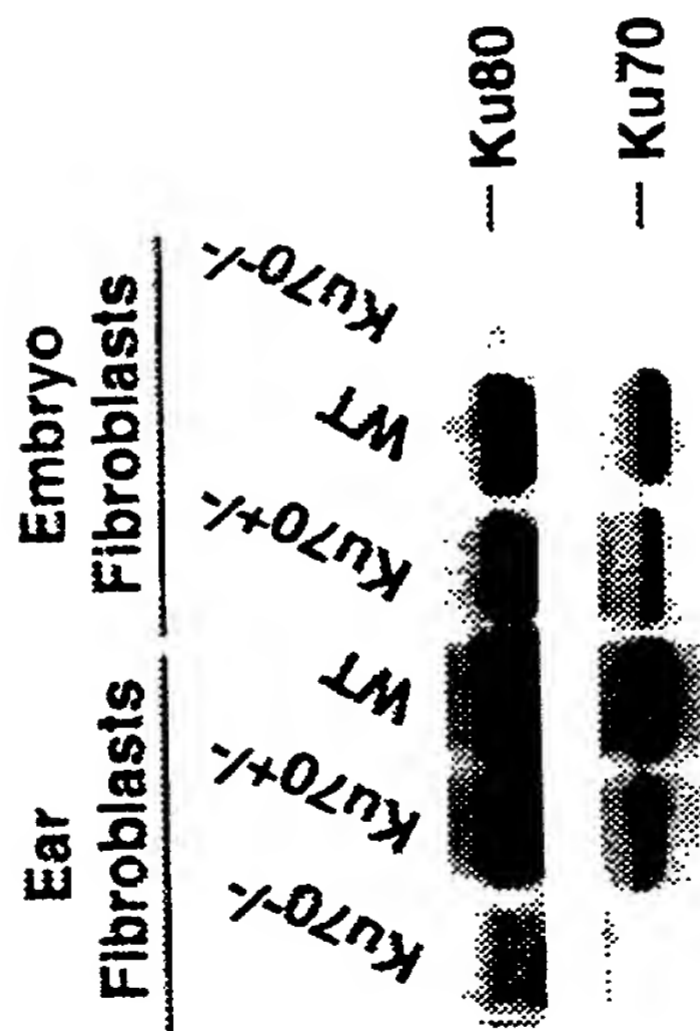
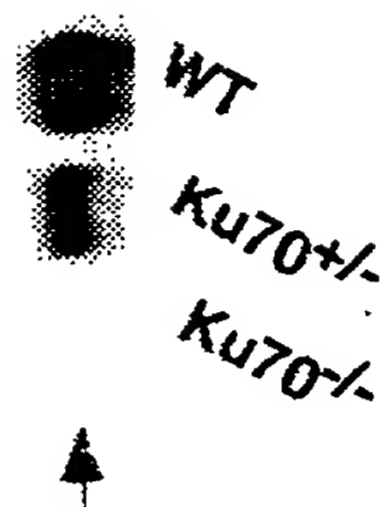


FIG. 1D



Ku70-/-
(HE)



FIG. 2A-7

FIG. 2A-8

FIG. 2A-9

Ku70-/-
(CD3)

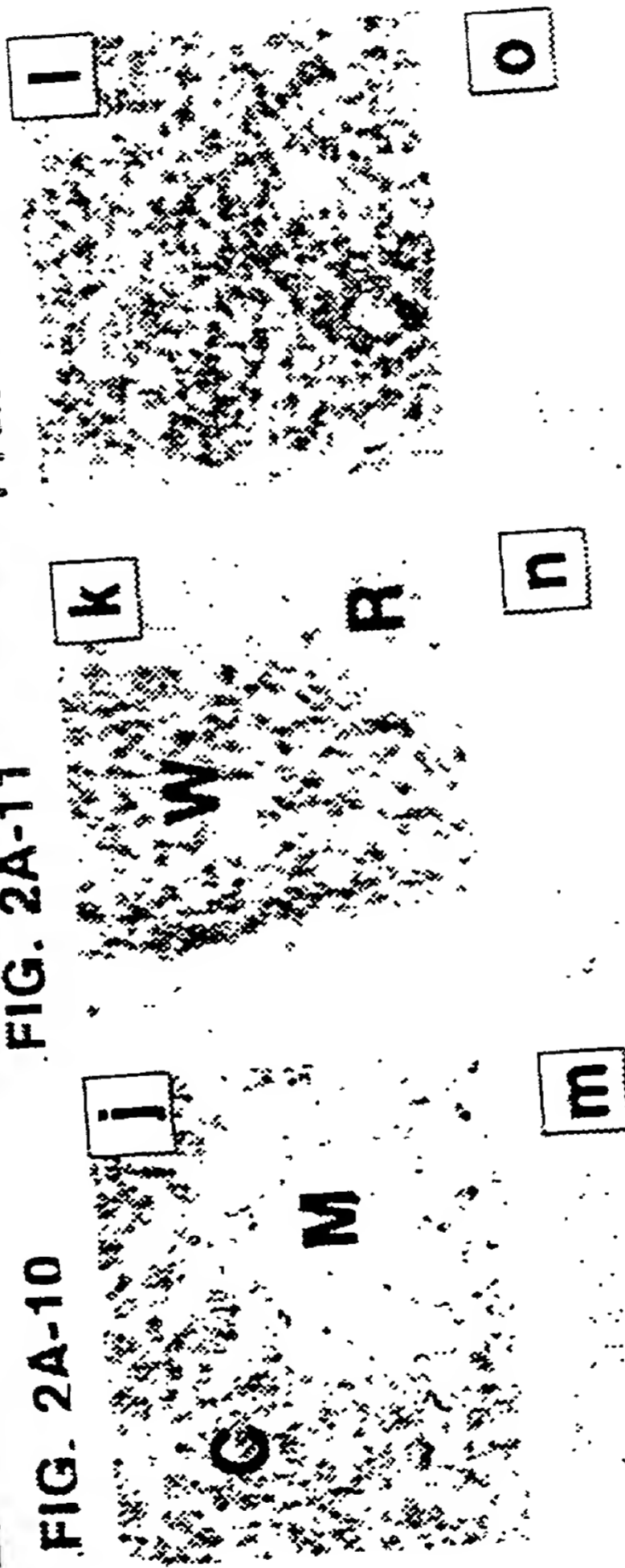


FIG. 2A-10

FIG. 2A-11

FIG. 2A-12

Ku70-/-
(CD19)

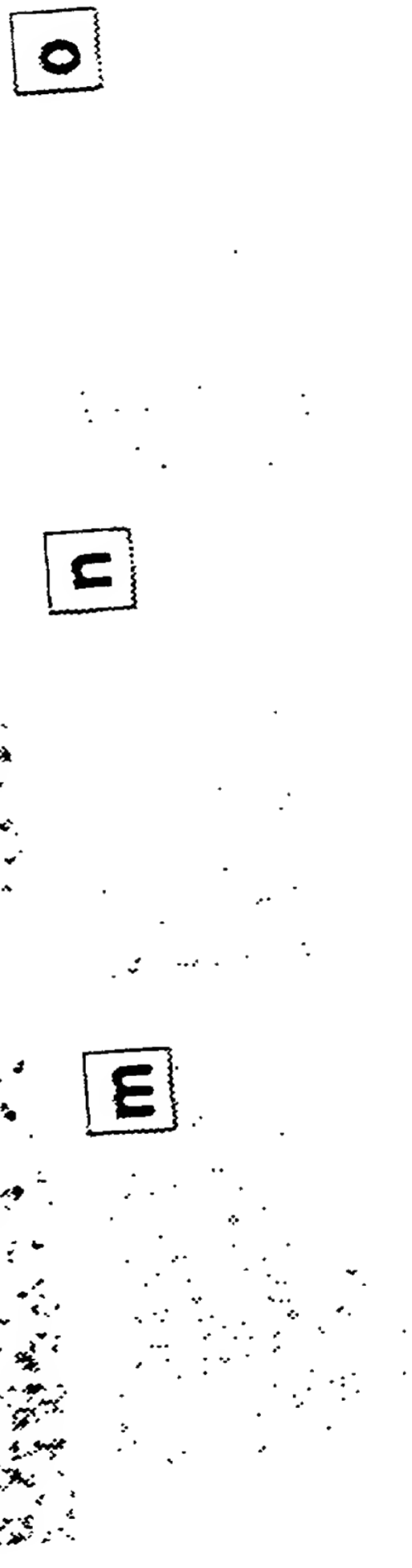


FIG. 2A-13

FIG. 2A-14

FIG. 2A-15

FIG. 2B-1

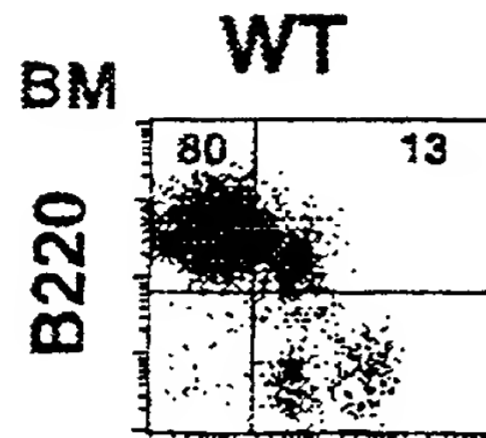


FIG. 2B-2

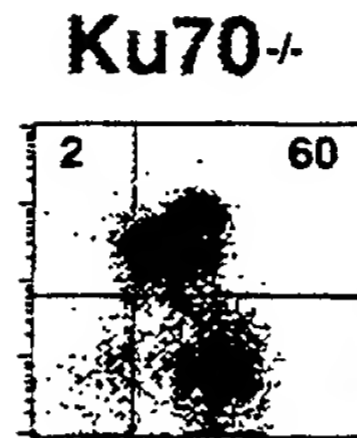
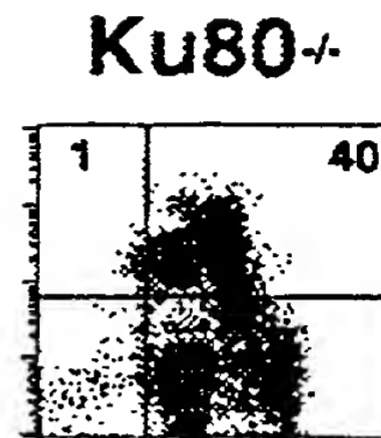


FIG. 2B-3



CD43

FIG. 2B-4

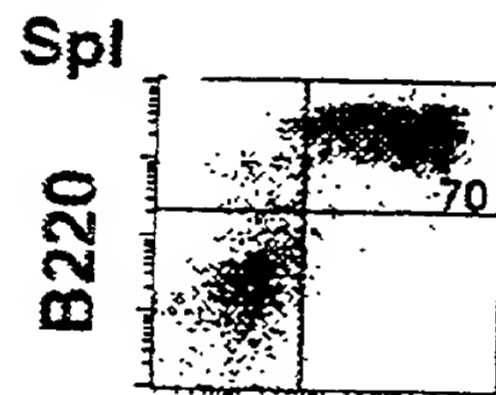


FIG. 2B-5

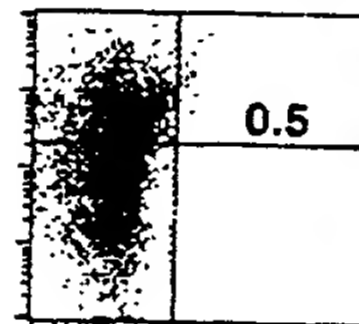
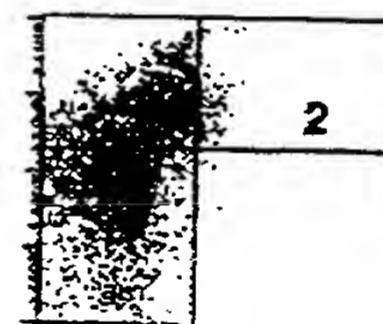


FIG. 2B-6



IgM

FIG. 2B-7

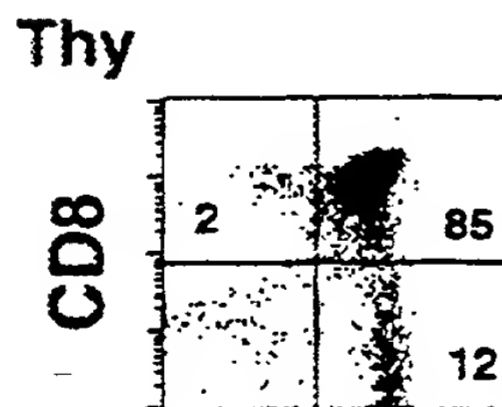


FIG. 2B-8

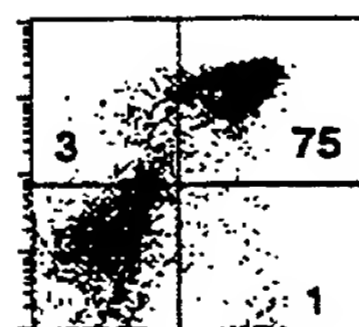
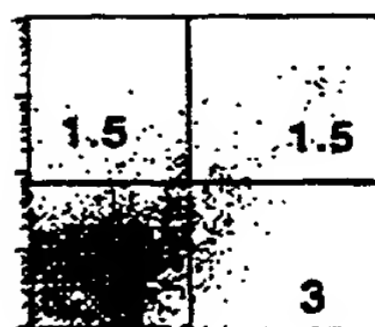


FIG. 2B-9



CD4

FIG. 2B-10

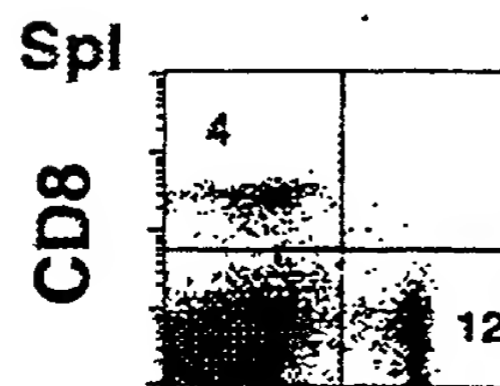


FIG. 2B-11

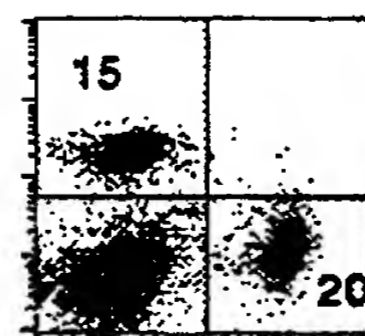
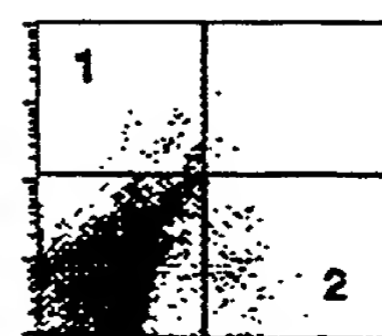


FIG. 2B-12



CD4

FIG. 2C-1

FIG. 2C-2

FIG. 2C-3

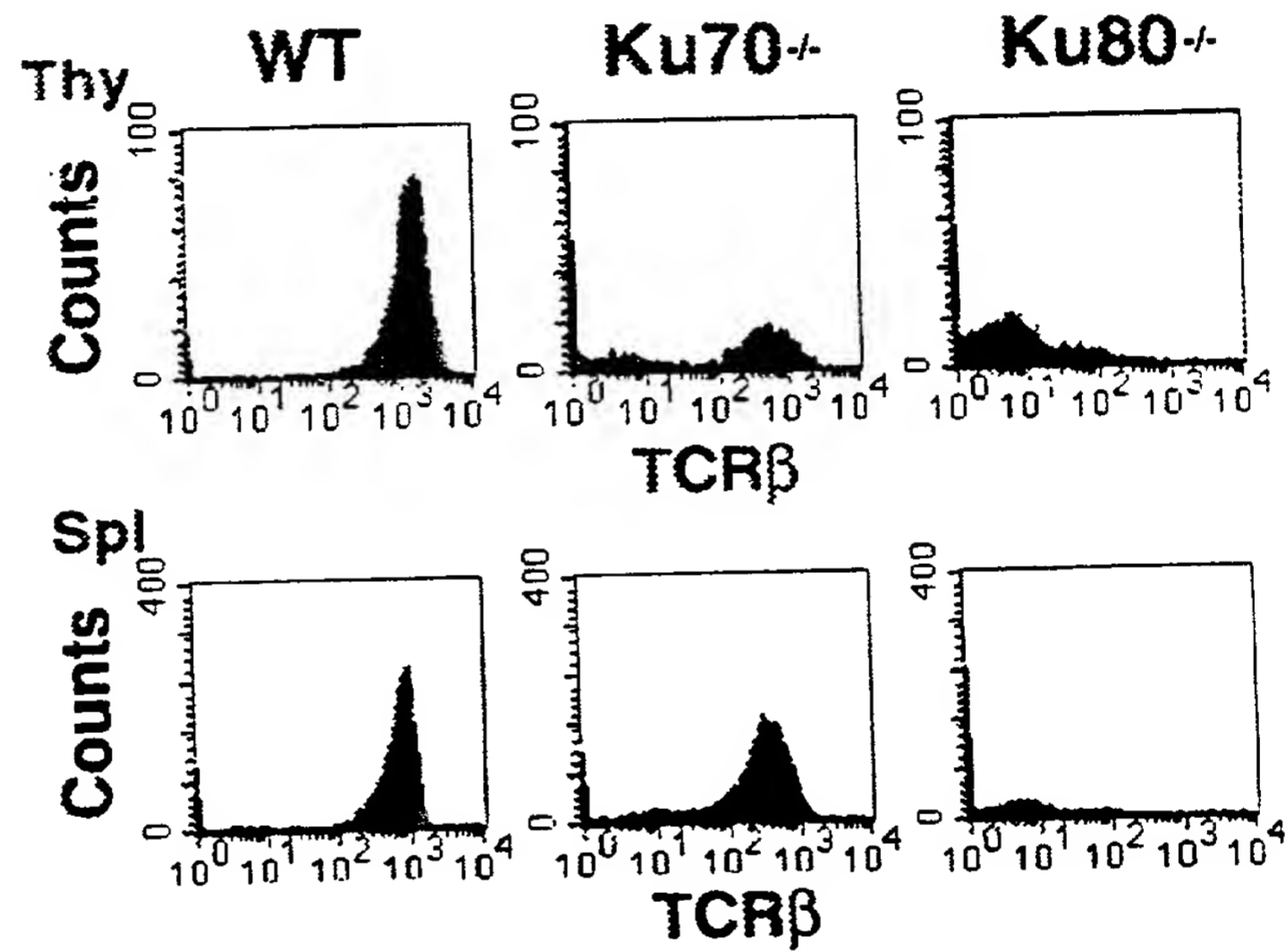


FIG. 2C-4

FIG. 2C-5

FIG. 2C-6

FIG. 3B

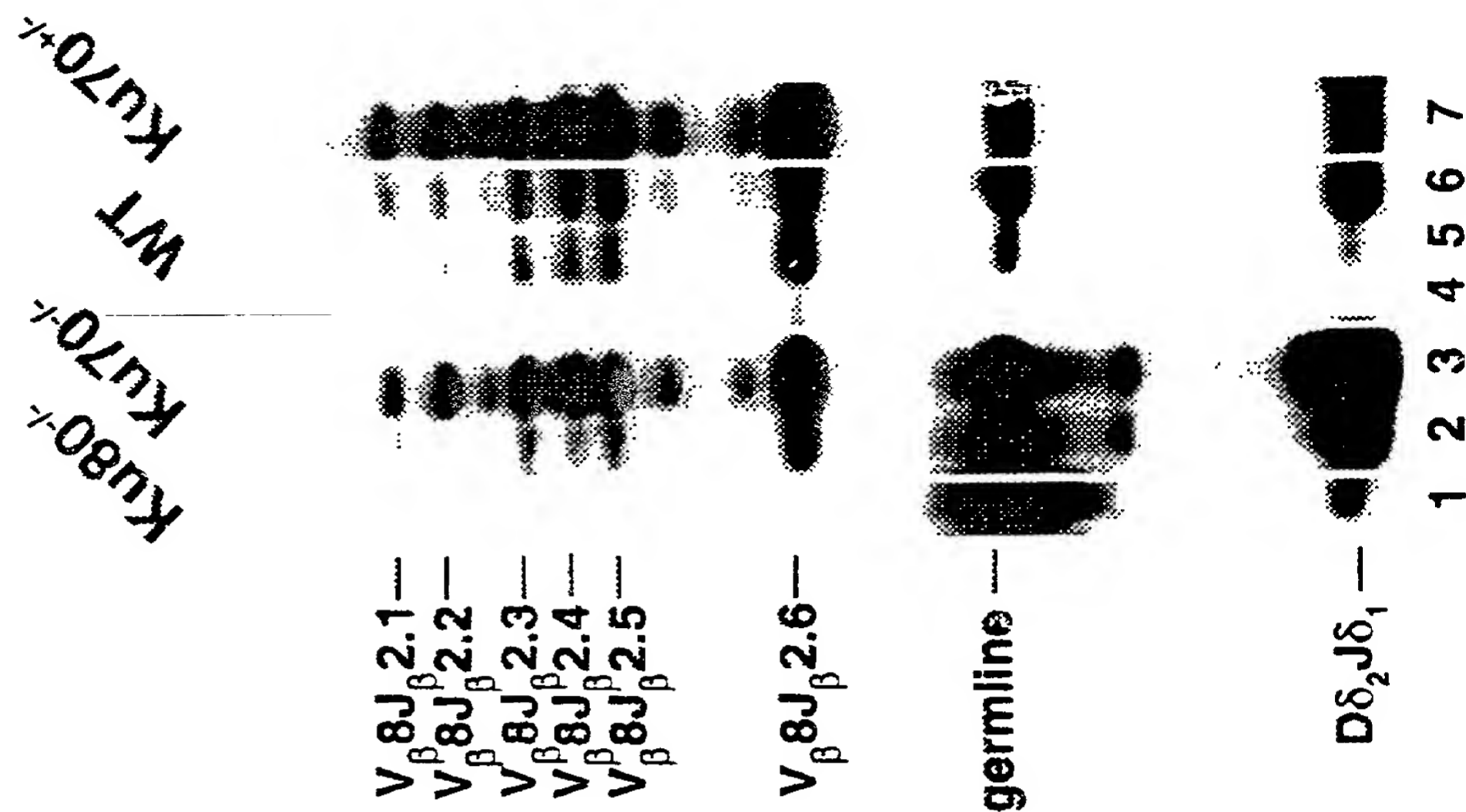
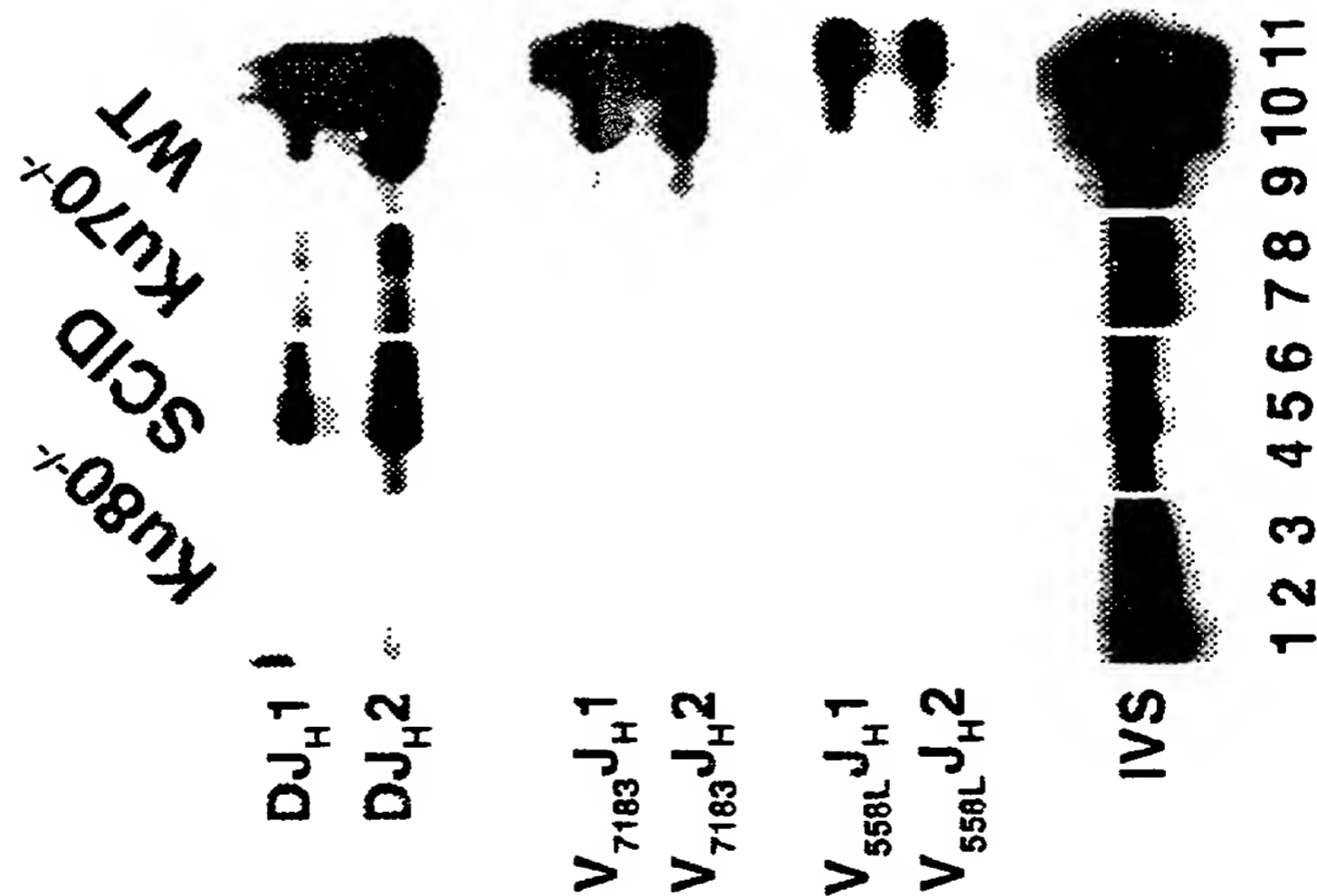


FIG. 3A



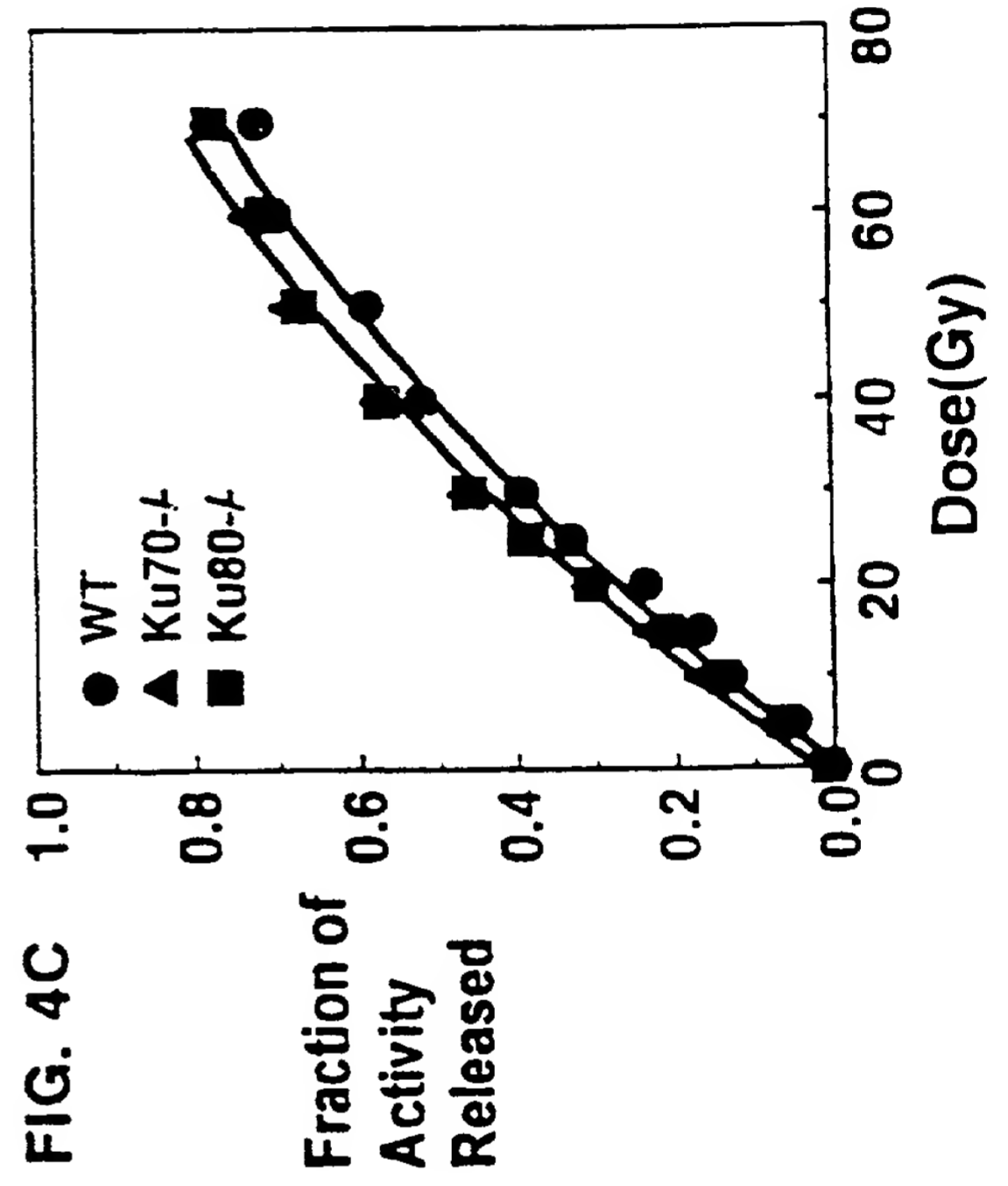
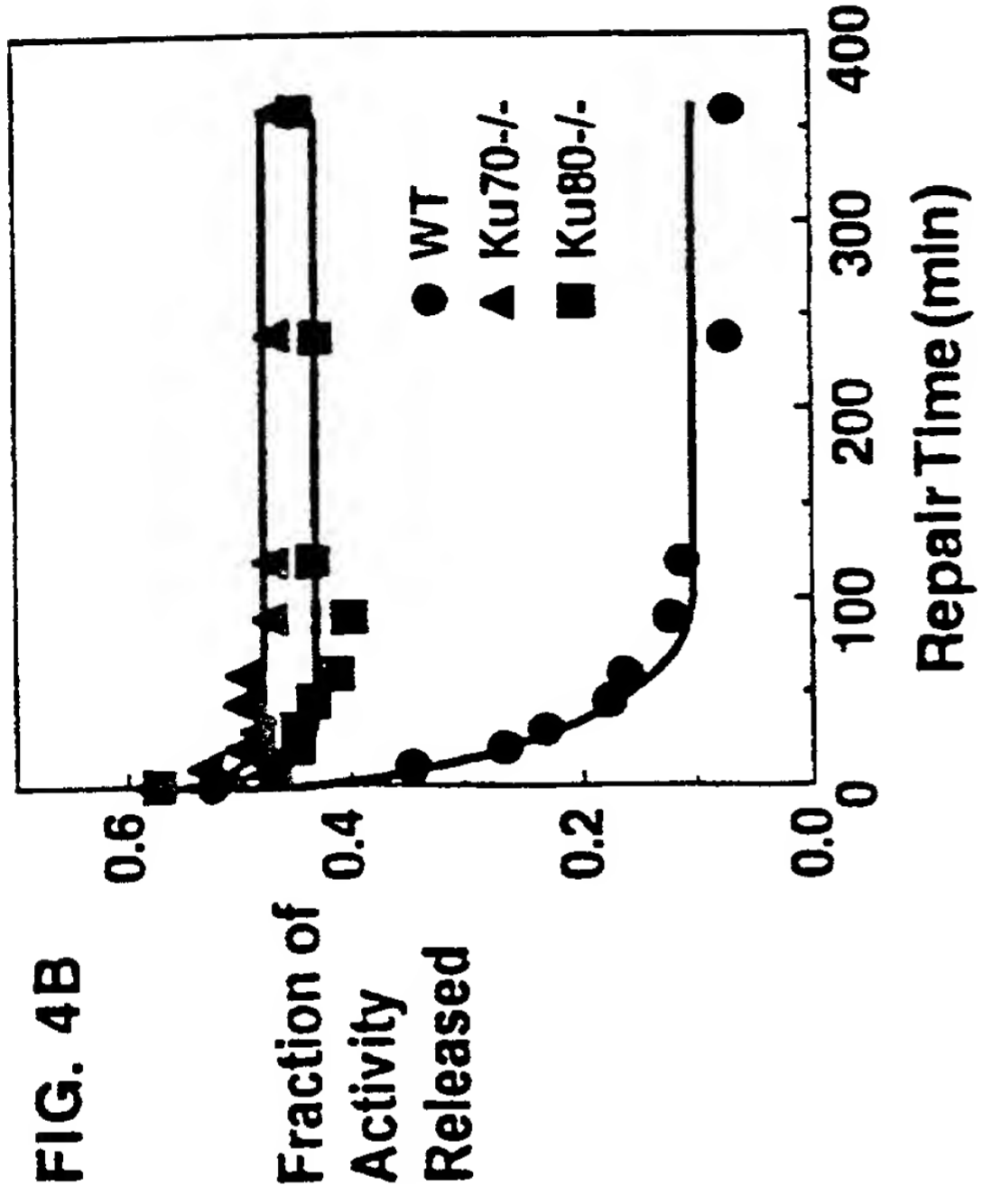
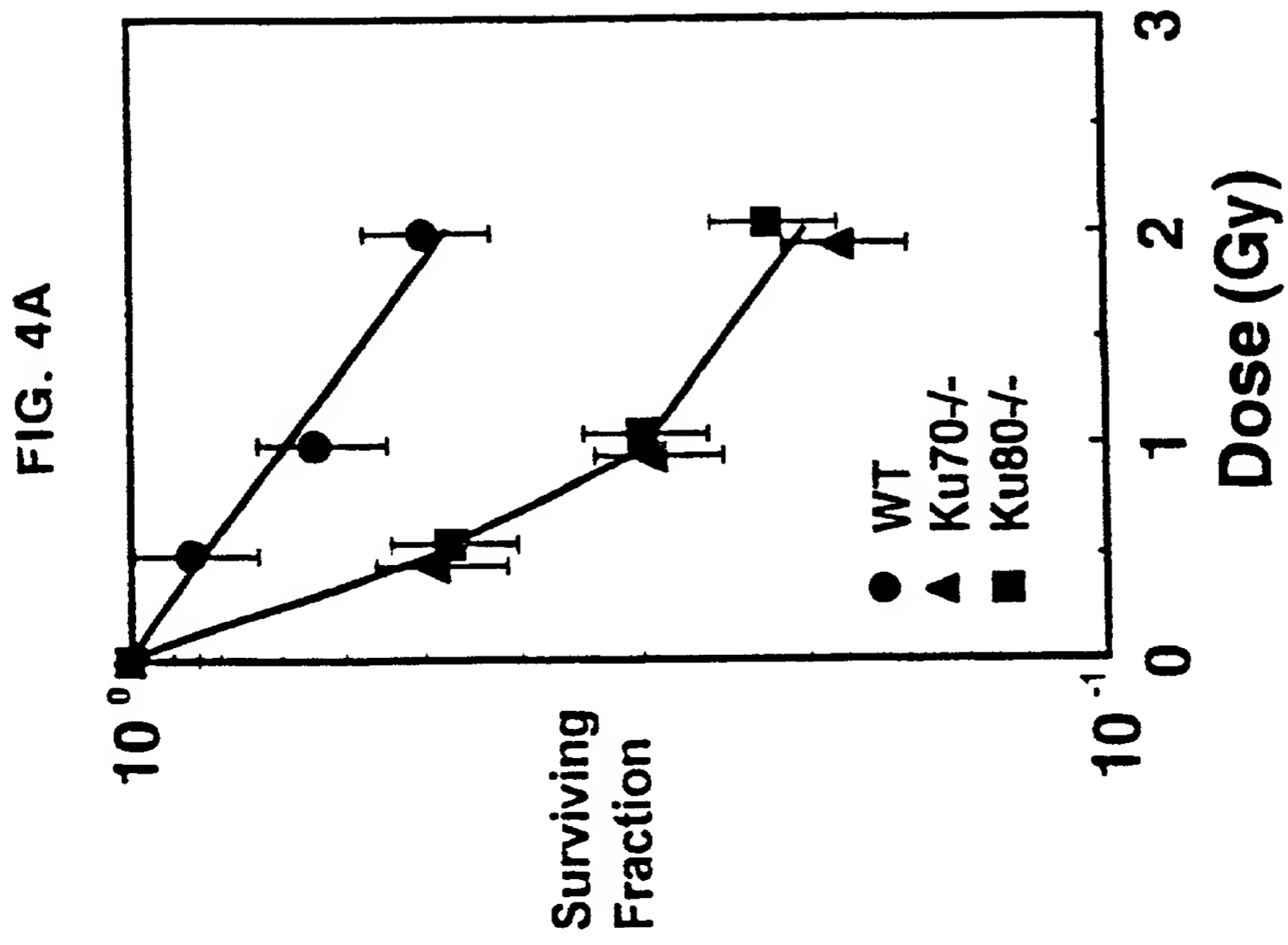


FIG. 5A

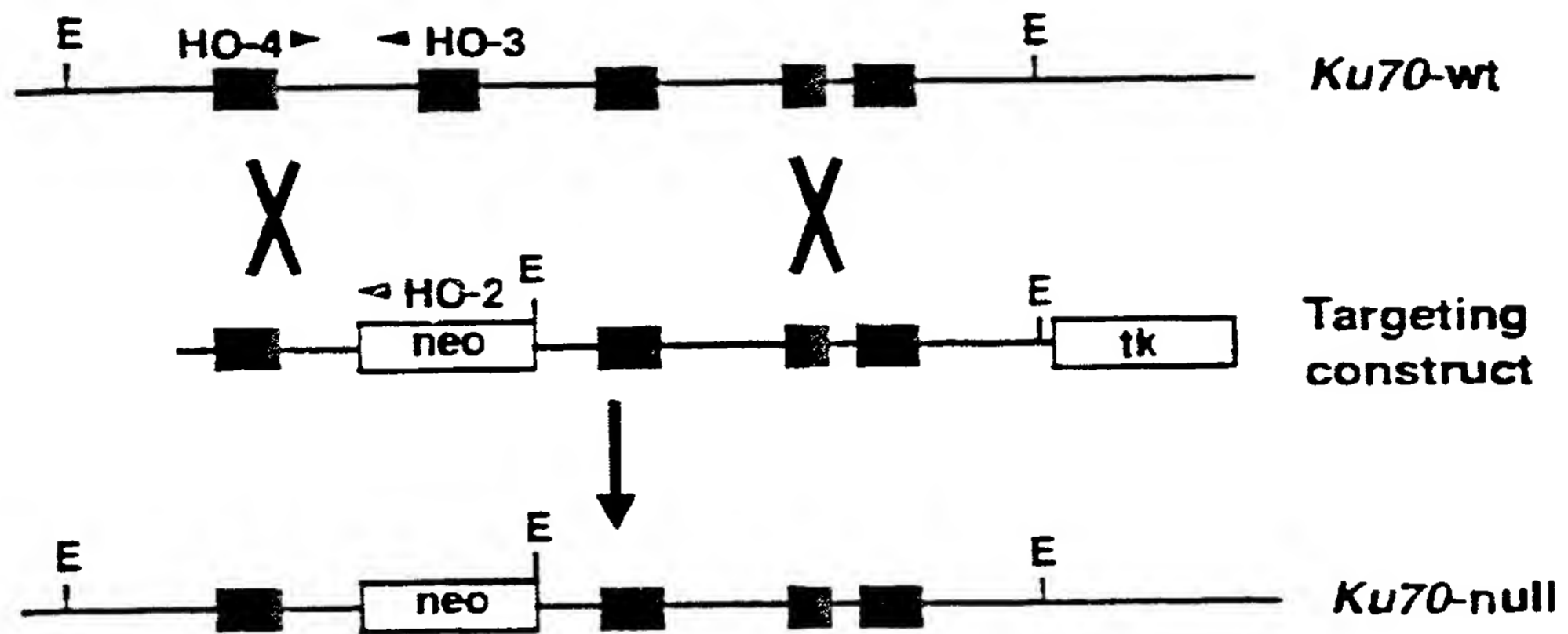
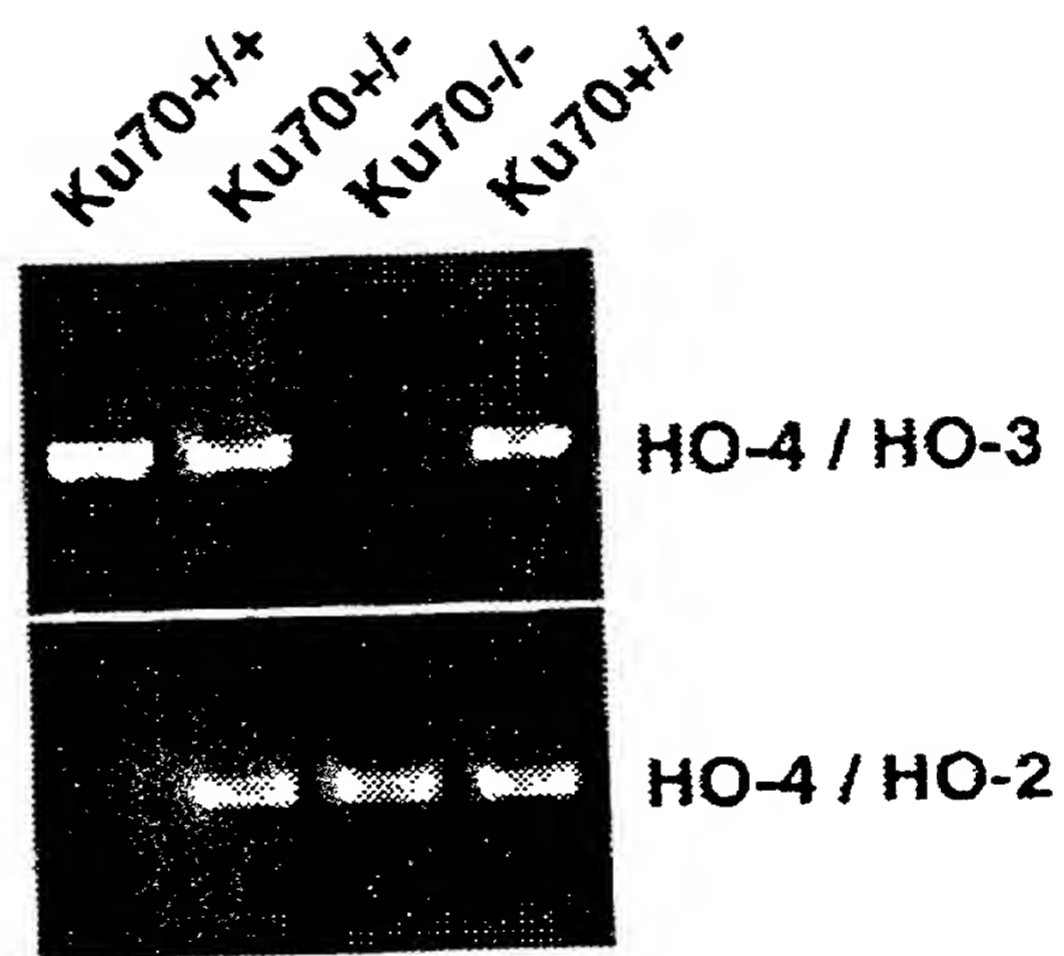
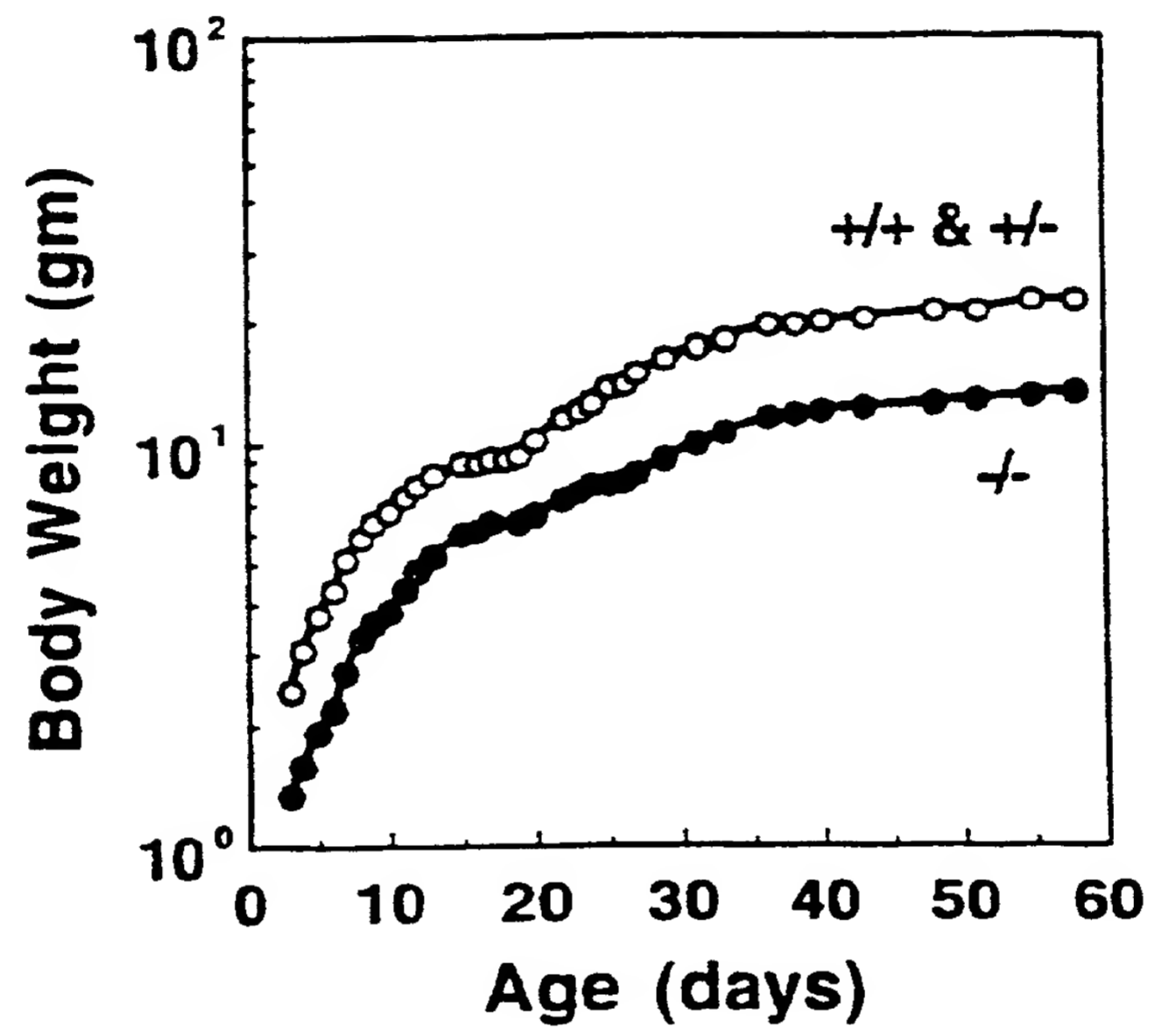


FIG. 5B



11/31

FIG. 5C





Ku70 +/+ **Ku70 -/-**

Ku70 +/-

Ku70 -/-

FIG. 6

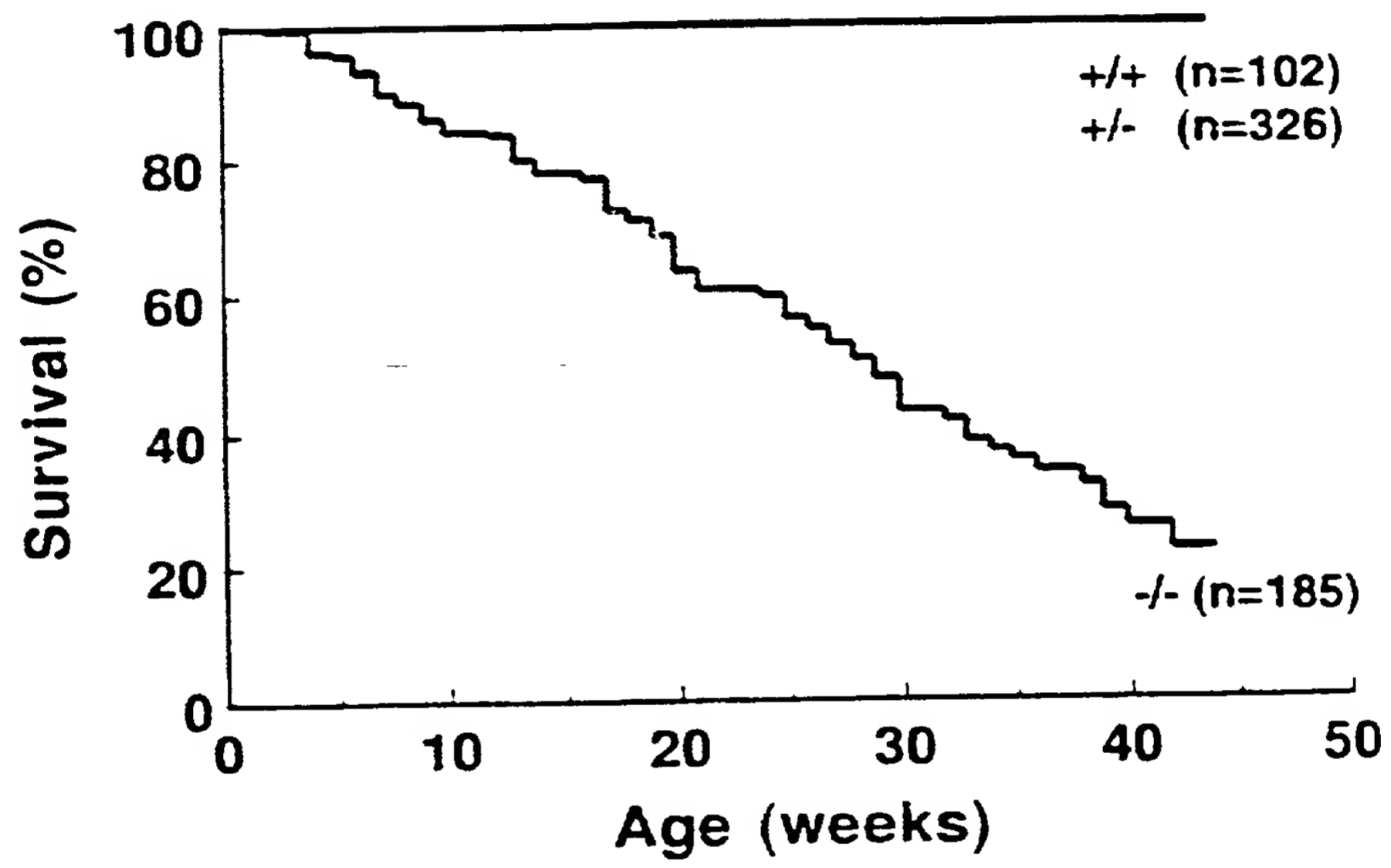


FIG. 7A

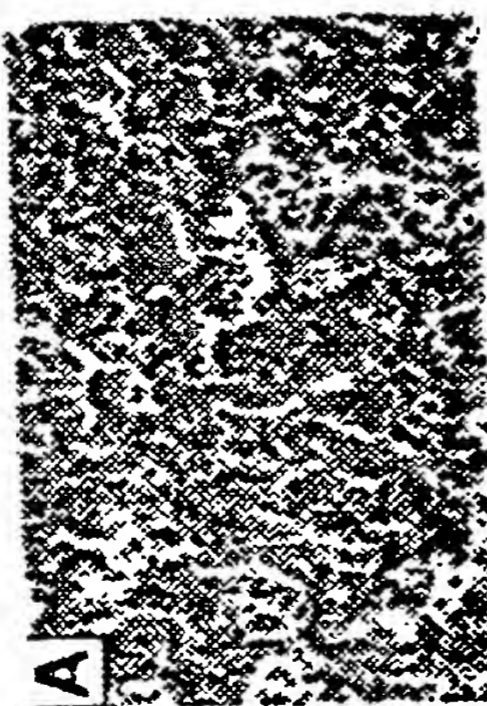


FIG. 7B

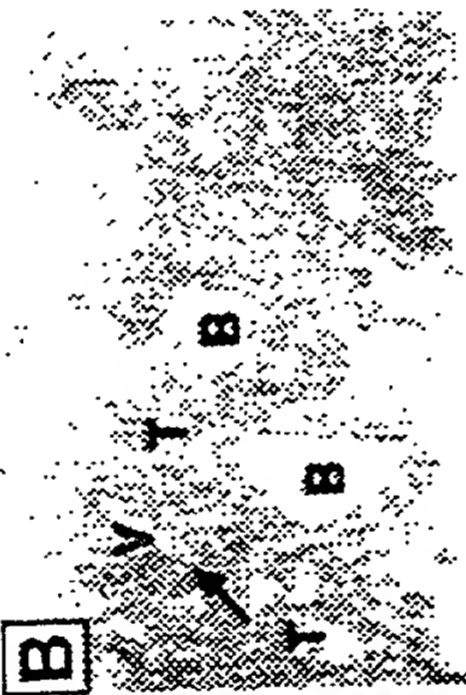


FIG. 7C



FIG. 7D

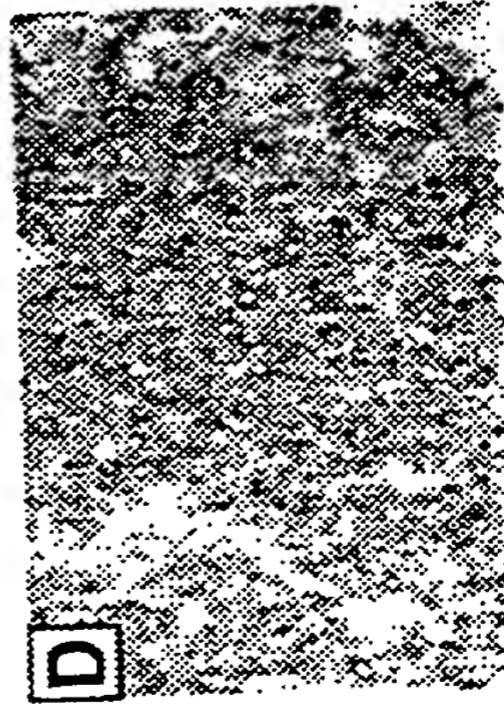
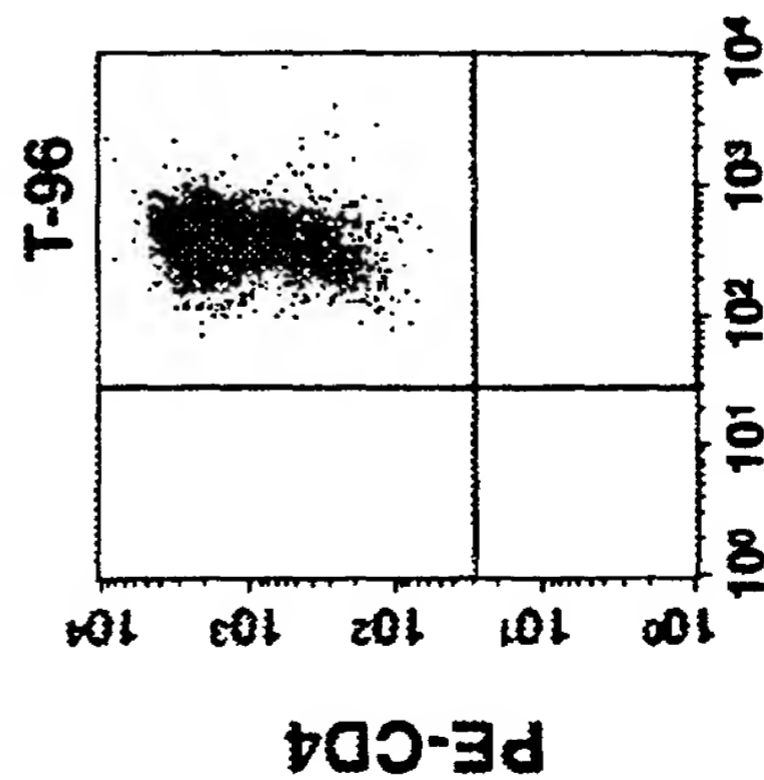


FIG. 7E

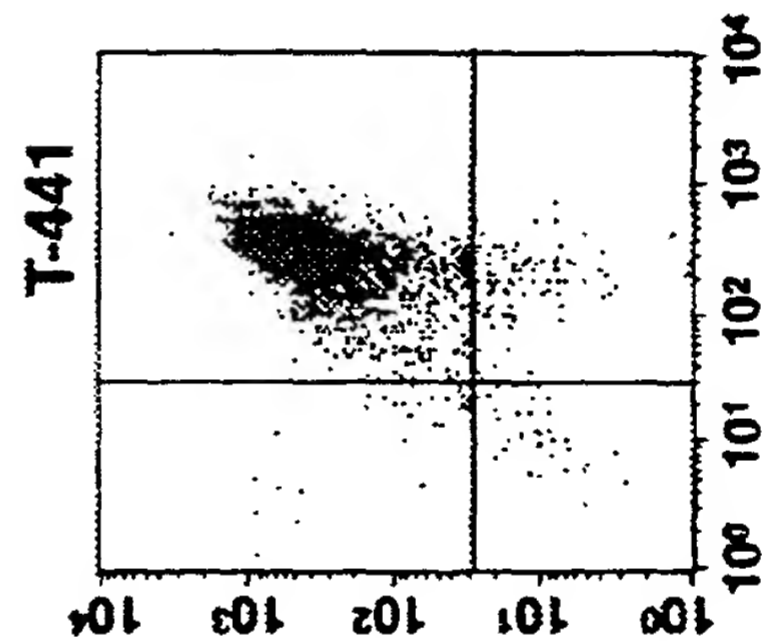


FIG. 7F





PE-CD4



FITC-CD8

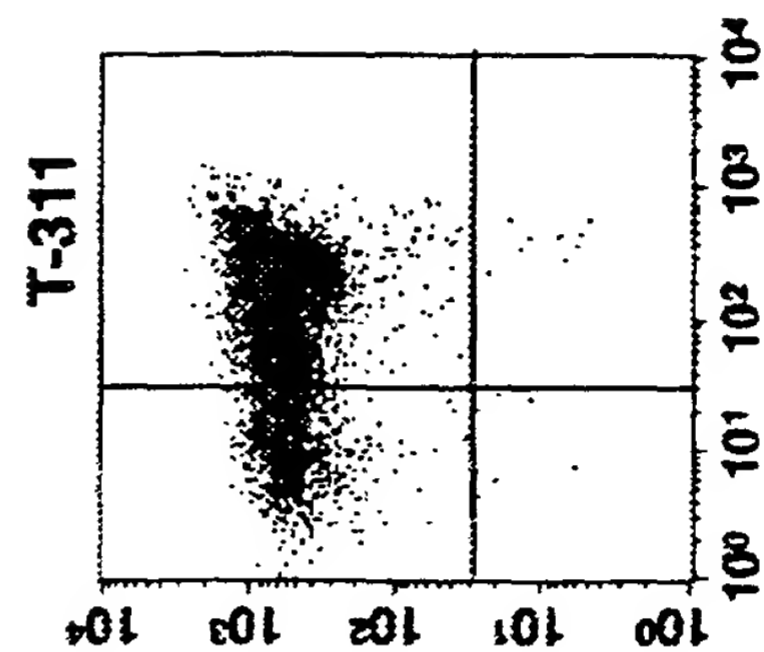


FIG. 8A

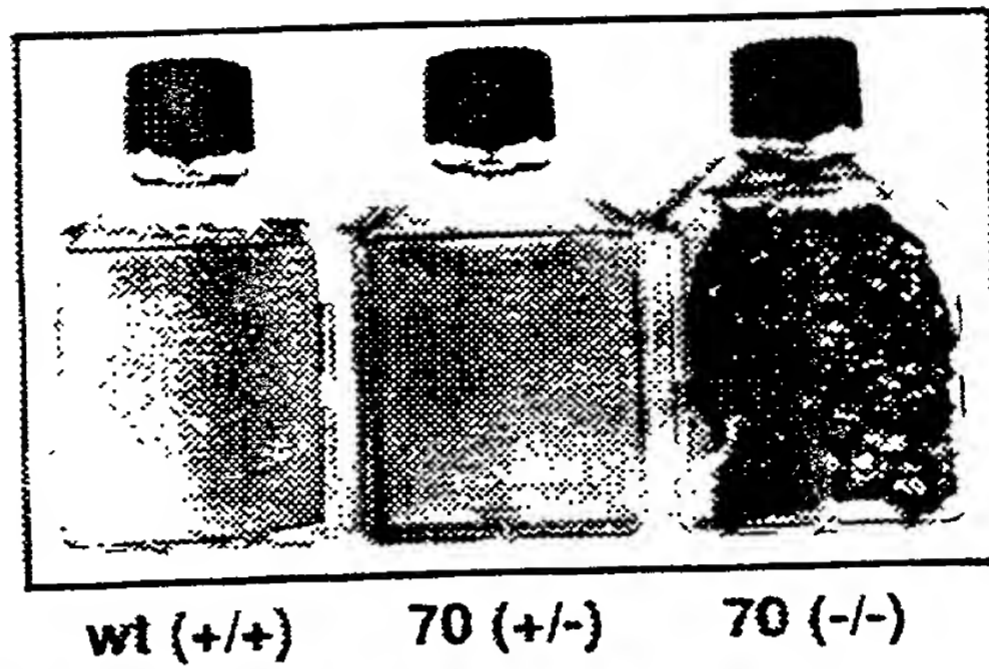


FIG. 8B

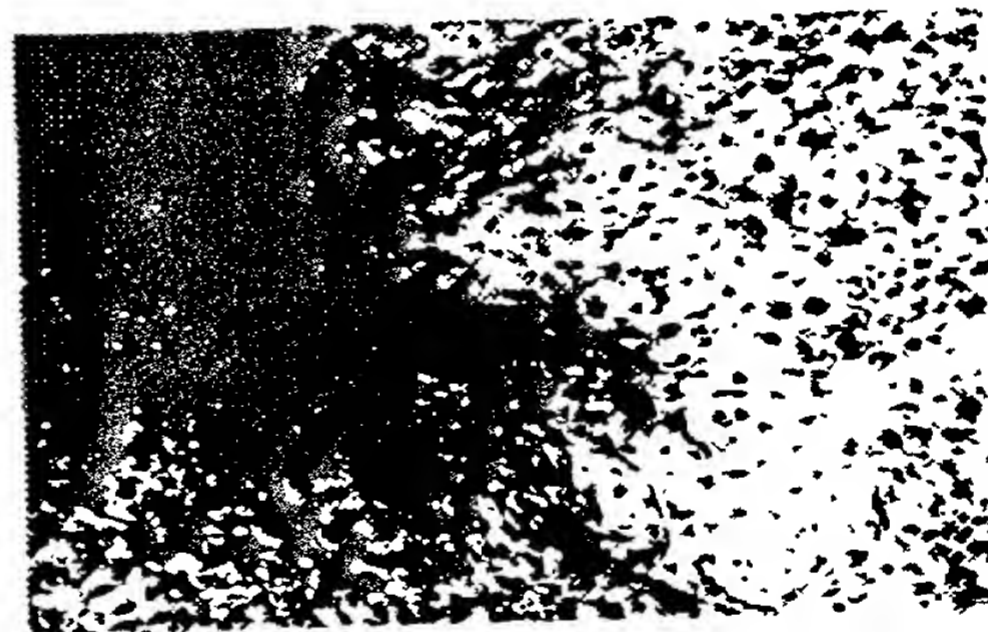


FIG. 8C

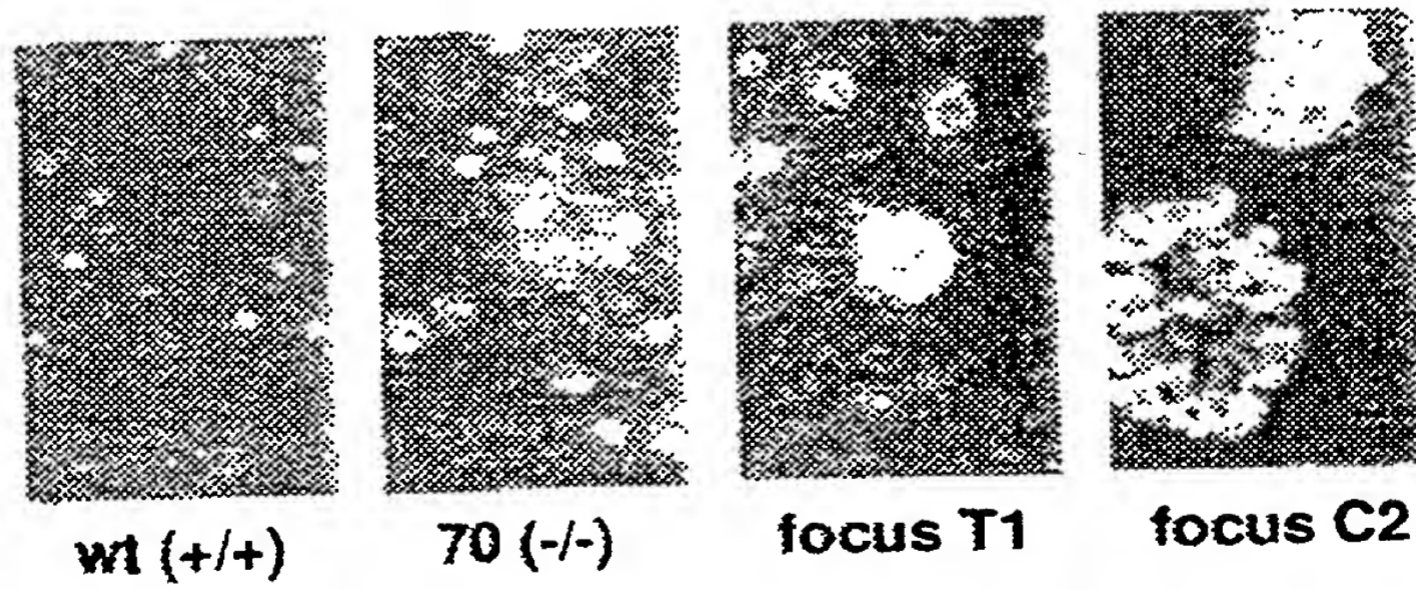
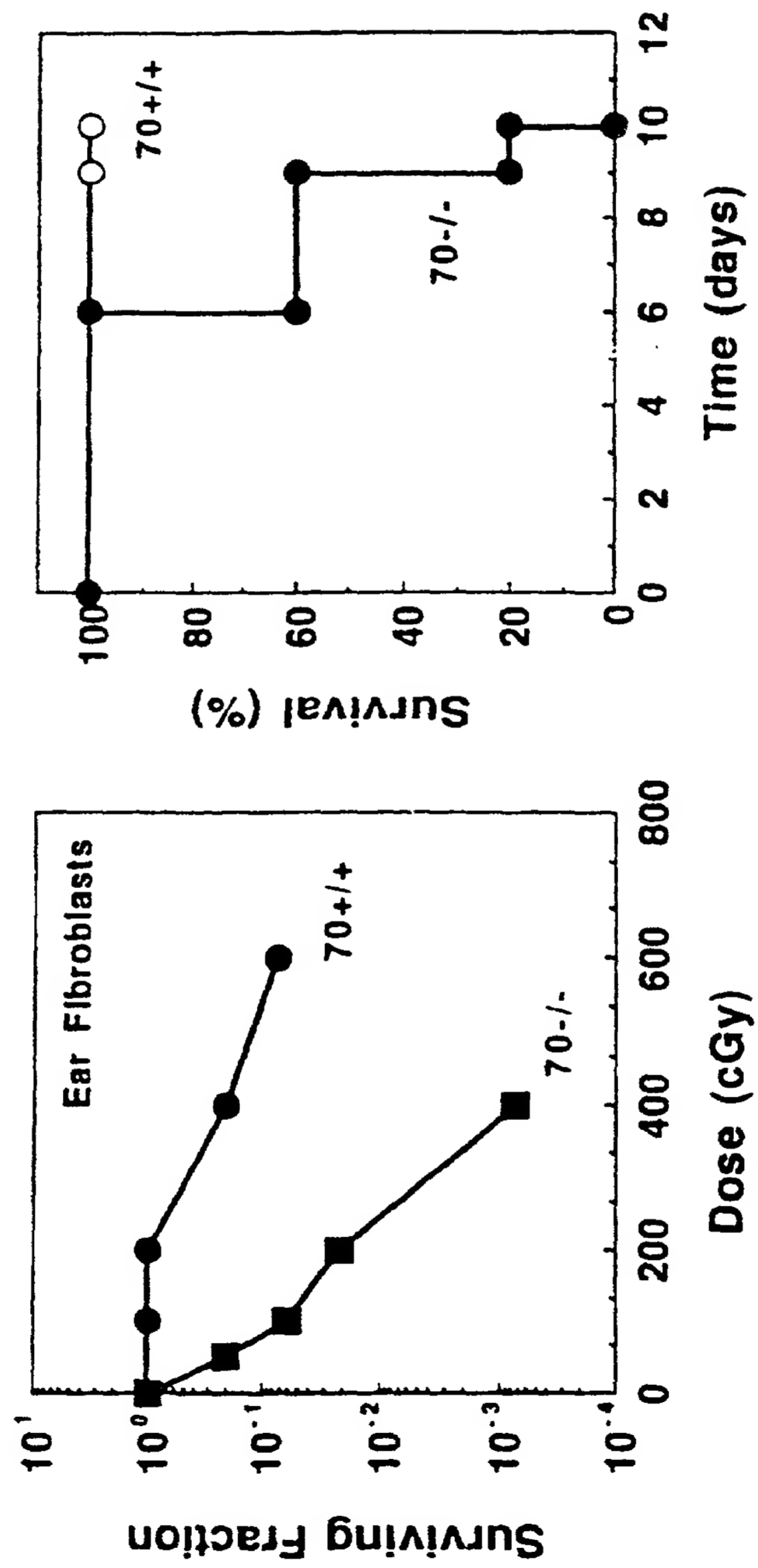



FIG. 9B



10A


10B

10C



D

B



G

FIG. 11H-1

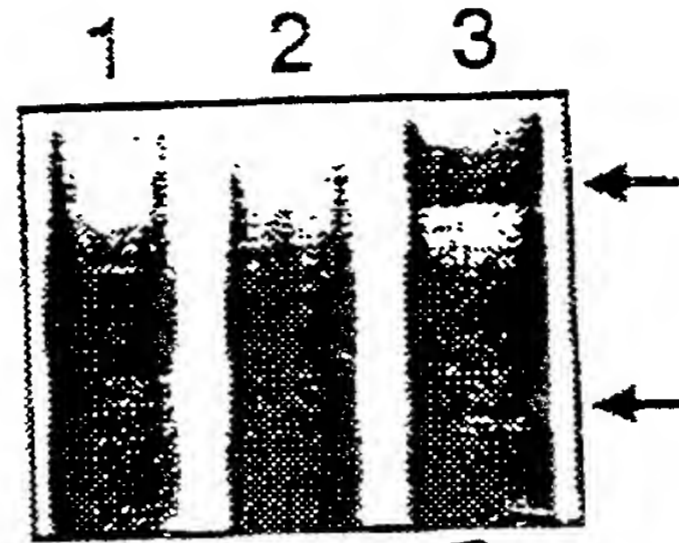


FIG. 11H-2

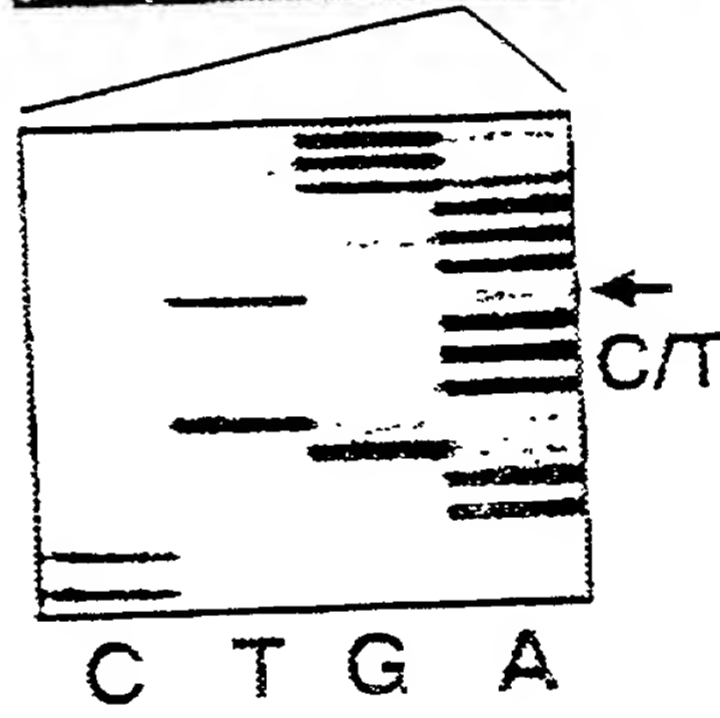


FIG. 111

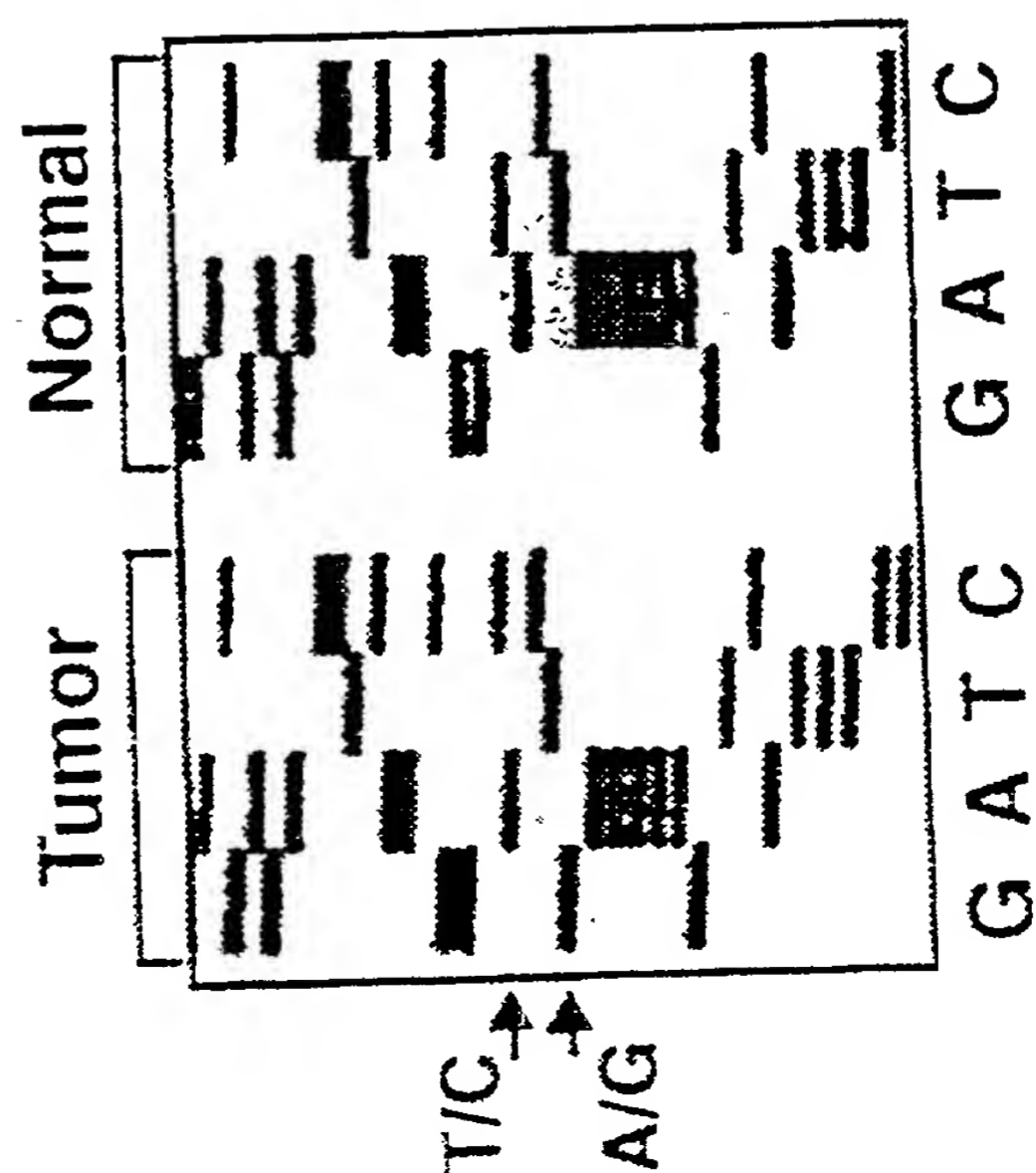


FIG. 12A

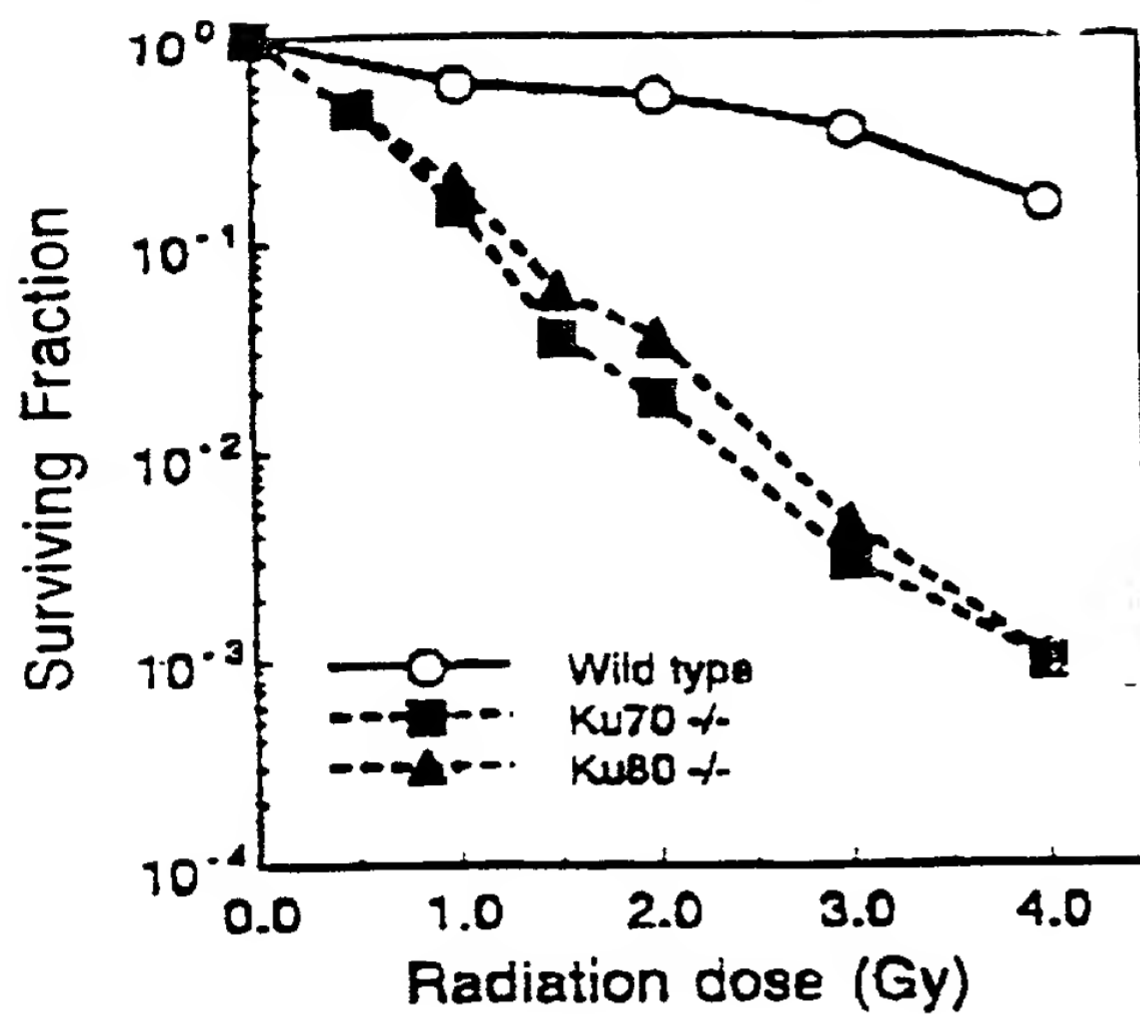


FIG. 12B

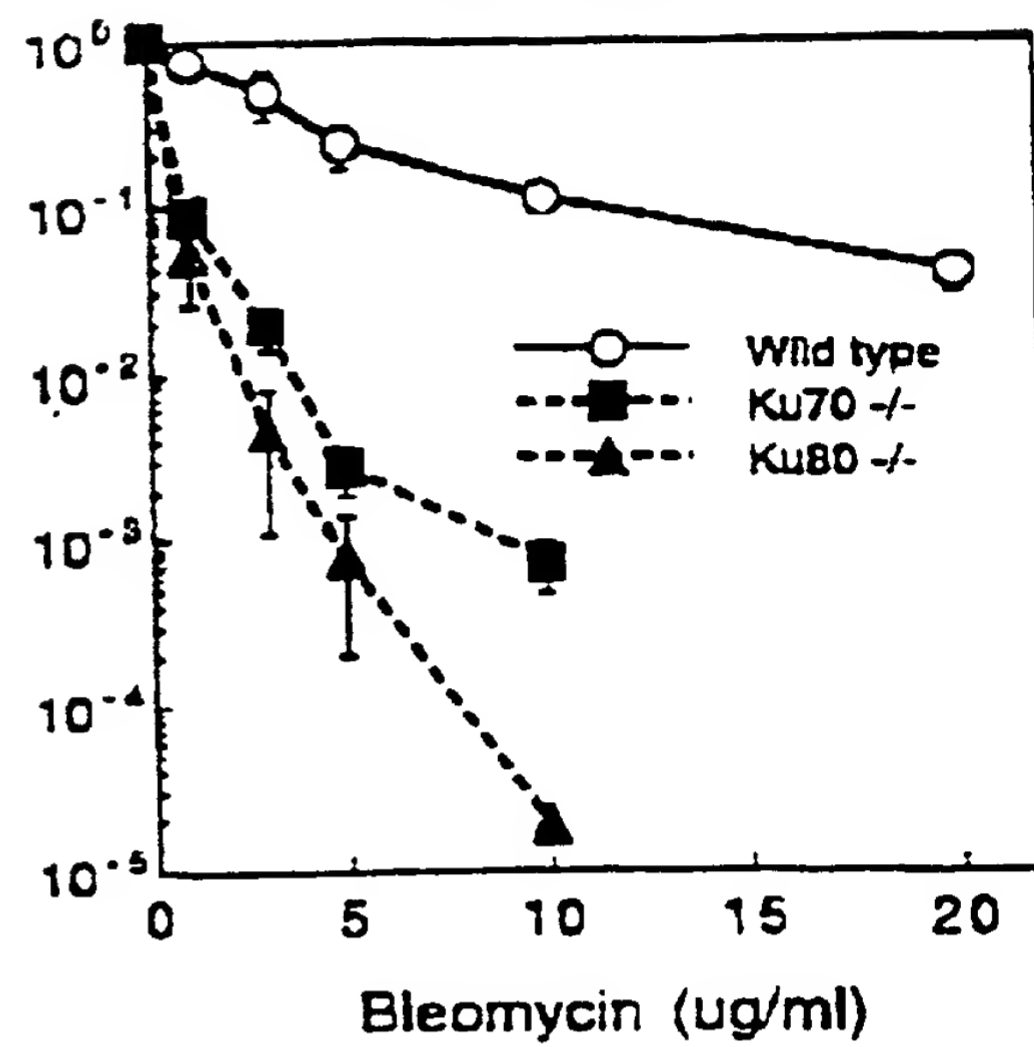


FIG. 12C

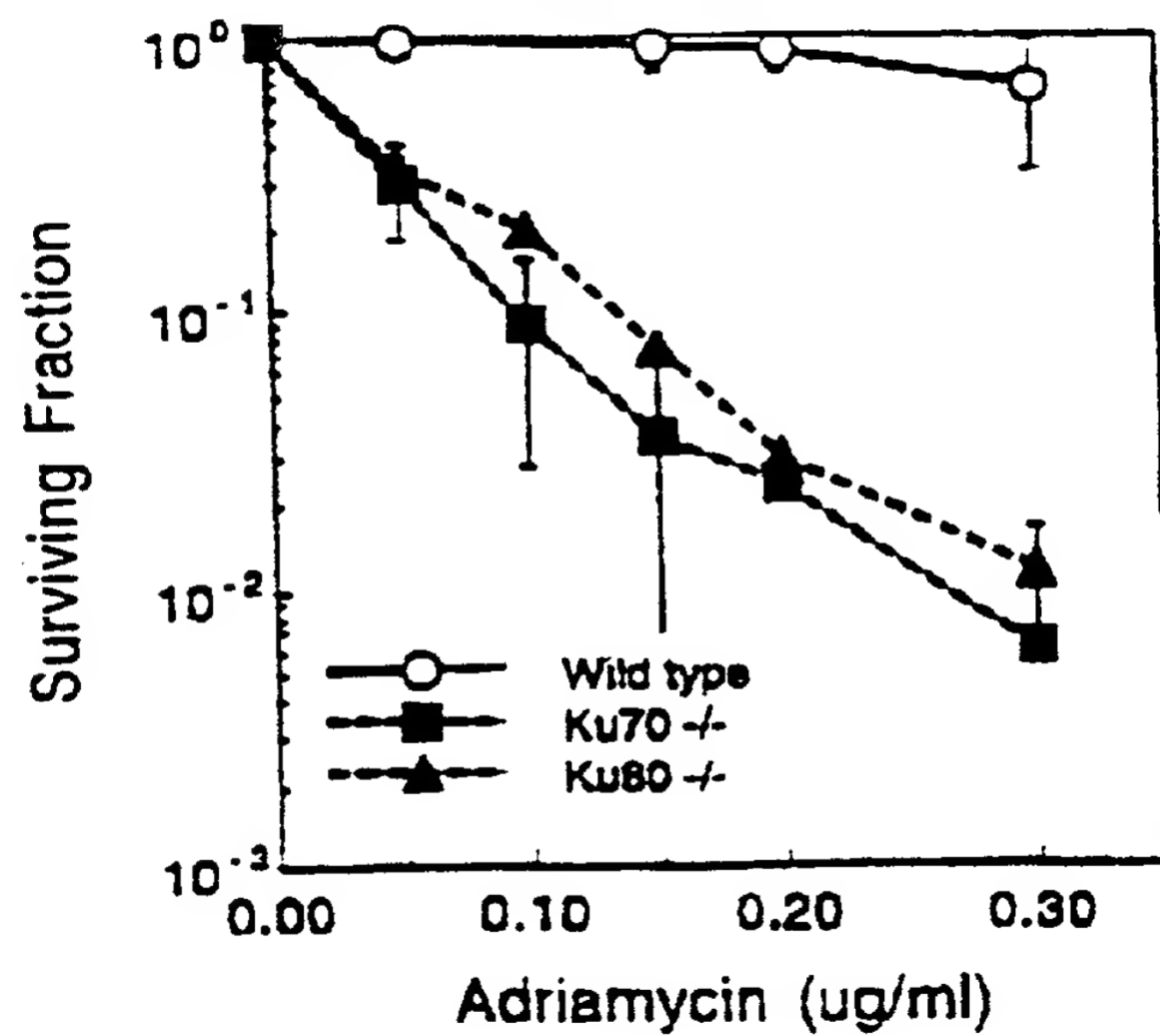


FIG. 12D

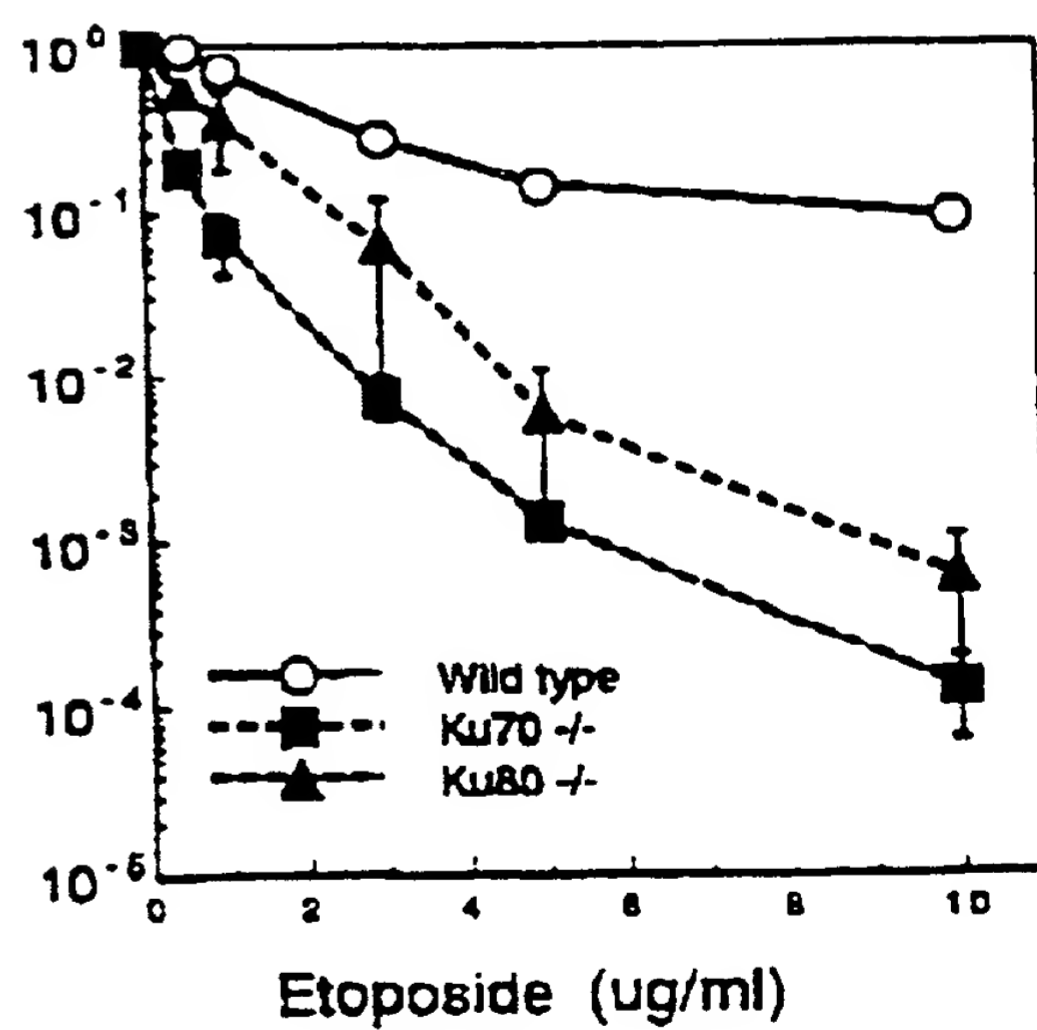


FIG. 13B

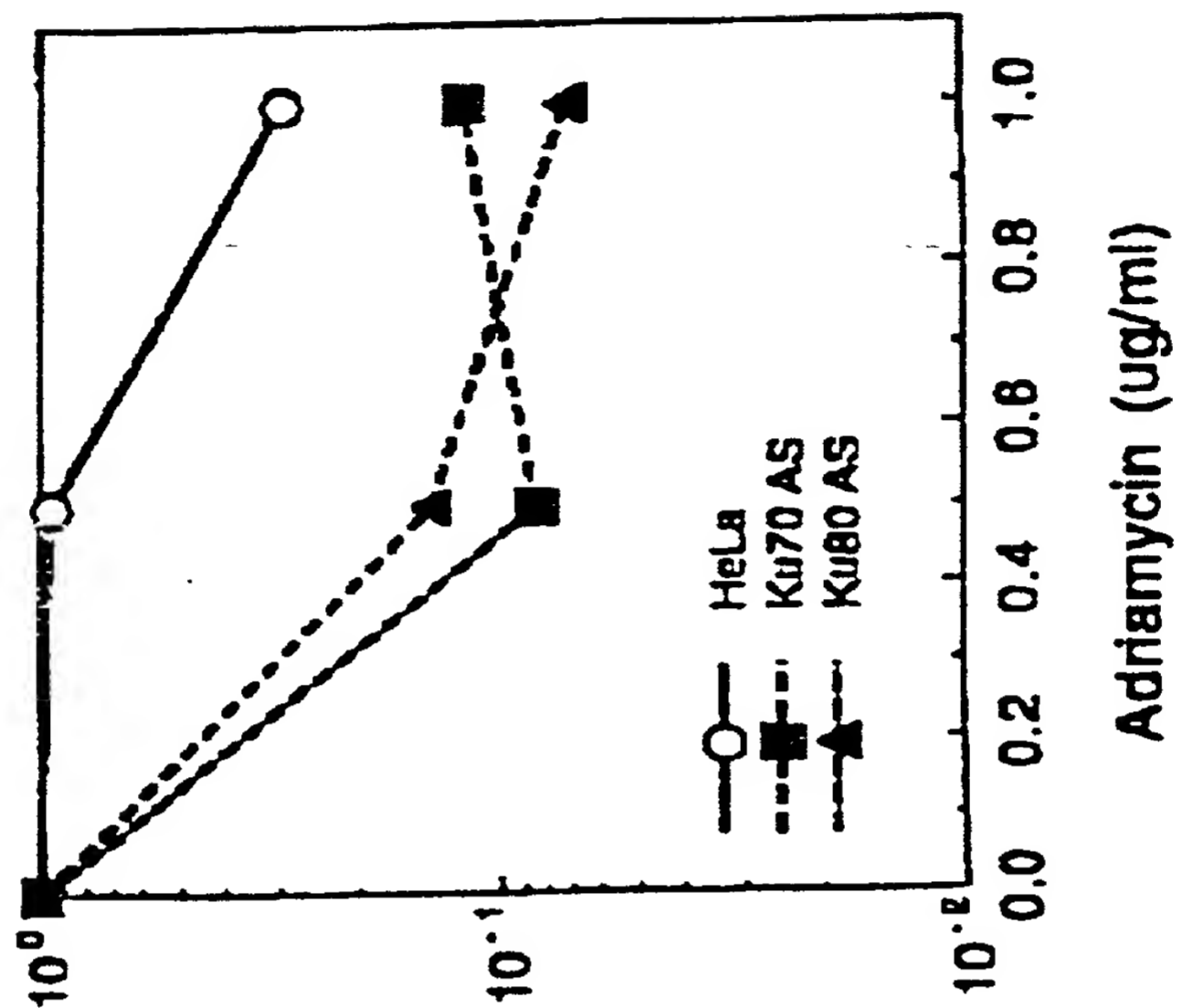


FIG. 14

V _β 8.1		P	N	D _H 2.1	N	P	J _H 2.6
AGCTGTATATTTCTGTGCCAGCAGTGATG				GGGACTGGGGGGG			CTCCTATGAACAGTACTTCGGTCCCGGCACCA
AGCTGTATATTTCTGTGCCAGCAGTG				GGAC		AGT	TGAACAGTACTTCGGTCCCGGCACCA (2)
AGCTGTATATTTCTGTGCCAGC				GG			CTCCTATGAACAGTACTTCGGTCCCGGCACCA
AGCTGTATATTTCTGTGCCAGC			CGACA	GGGGGG			CTATGAACAGTACTTCGGTCCCGGCACCA
AGCTGTATATTTCTGTGCCAGCAGTGA			CTG	GGGA			GAACAGTACTTCGGTCCCGGCACCA
V _β 8.2							
ATCAGTGTACTTCTGTGCCAGCGGTGATG							
ATCAGTGTACTTCTGTGCCAGCGGTG							TGAACAGTACTTCGGTCCCGGCACCA
ATCAGTGTACTTCTGTGCCAGCGG				G		TT	GAACAGTACTTCGGTCCCGGCACCA
ATCAGTGTACTTCTGTGCCAGCGGTA			GCC				GTACTTCGGTCCCGGCACCA
ATCAGTGTACTTCTGTGCCAGC				GG		T	CTCCTATGAACAGTACTTCGGTCCCGGCACCA
ATCAGTGTATTTCTGTGCCAGC				GG		AG	TGAACAGTACTTCGGTCCCGGCACCA
ATCAGTGTACTTCTGTGCCAGCGGTGA			CA	GGGA			CTCCTATGAACAGTACTTCGGTCCCGGCACCA
V _β 8.3							
ATCTTTGTACTTCTGTGCCAGCAGTGATG							
ATCTTTGTACTTCTGTGCCAGCAGTGATG		CA		GGGG			CCTATGAACAGTACTTCGGTCCCGGCACCA
ATCTTTGTACTTCTGTGCCAGC				TG			TACTTCGGTCCCGGCACCA
ATCTTTGTACTTCTGTGCCAGCAGTGAT					C		CCTATGAACAGTACTTCGGTCCCGGCACCA
ATCTTTGTACTTCTGTGCCAGCAGTGAT				TGGG			CCTATGAACAGTACTTCGGTCCCGGCACCA
ATCTTTGTACTTCTGTGCCAGCAGTGAT							CCTATGAACAGTACTTCGGTCCCGGCACCA

Marker (bp)

800-
400-
300-

WT + - WT -/- -/+ -/- RT

DNA-PKcs (exon 1-4)

400-
300-
200-

DNA-PKcs (P1-3 kinase)

500-
300-
200-

GAPDH

Primary fibroblast		SV40 transformed fibroblast		DNA-PKCS	Ku70
WT	+	WT	+	+	+
+/-	+	+/-	+	+	+
-/-	+	-/-	+	+	+
SCID	+	SCID	+	+	+

FIG. 16A-2
PKcs^{-/-}

FIG. 16A-6

b

d

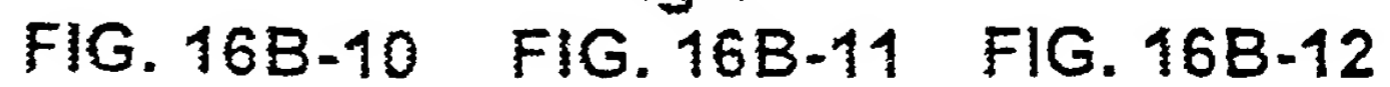


FIG. 16C-2

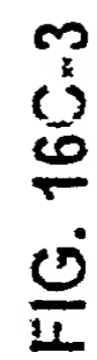


FIG. 16C-4

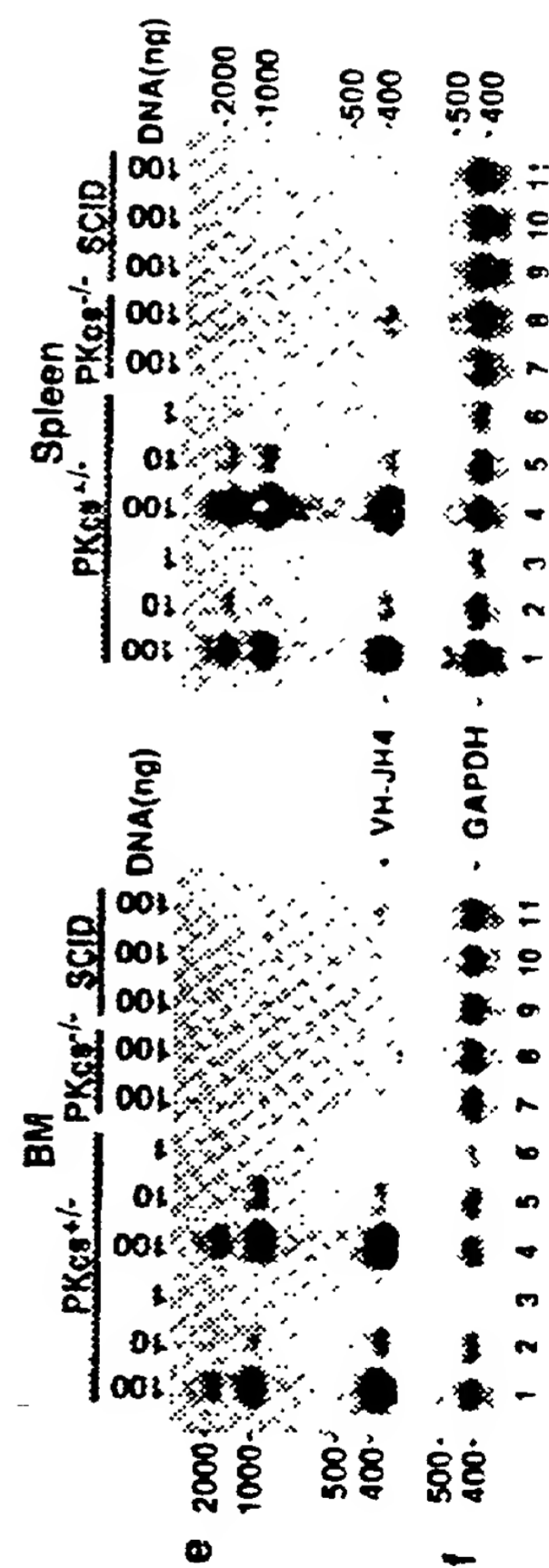


FIG. 17

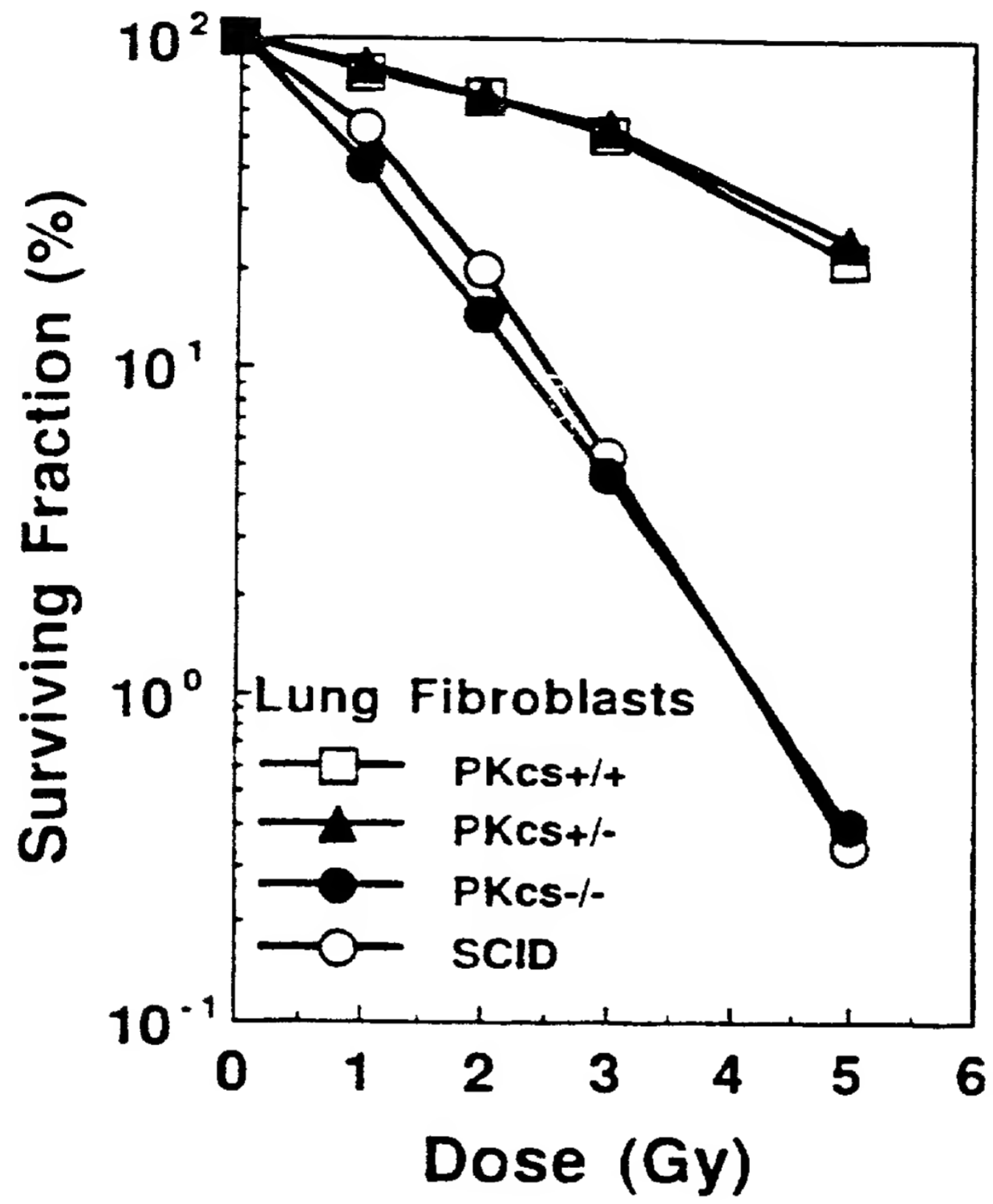


FIG. 18A



FIG. 18C



FIG. 18B



FIG. 18D

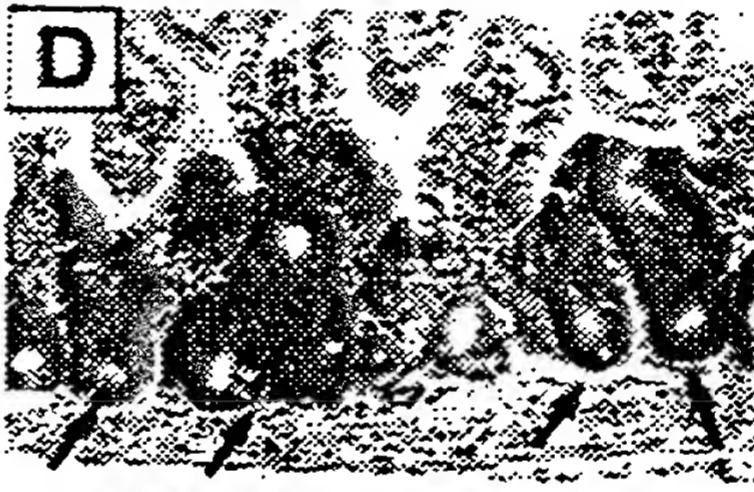


FIG. 18E